



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D5580-1
Job Sheet 173986

Accounting Job RD17-1046-01



Part No: D5580-1

Job Qty: 4 ea

Part Name: Shim, Cable Cutter



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 3/8/18

Job Tracking No:

Due Date: 3/30/18

Created By: Michelle Gagnon-Donovan

Type: R+D

Description:

Note: TBD Dwg. D5580 Rev.A IPP Rev.A New issue 18/03/06 verified by:DP

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	4 Ea		3/29/18	0.00	0.00	Start Up Waterjet		on 18/03/18
100	Waterjet	4 pcs		3/30/18	0.00	0.33	Waterjet1		on 18/03/18
110	QC	4 pcs		3/30/18	0.00	0.00	QC2 Waterjet-4		on 18/03/18
120	QC	4 pcs		3/30/18	0.00	0.00	QC8-6		38
130	Outsource	4 pcs		3/30/18	0.00	0.00	Outsource4		on 18/03/18
140	Packaging	4 pcs		3/30/18	0.00	0.00	Packaging2		on 18/03/18
160	QC	4 pcs		3/30/18	0.00	0.00	QC6		38
170	Packaging	4 pcs		3/30/18	0.00	0.00	Packaging3-2		on 18/03/18
180	QC21-SA	4 Ea		3/30/18	0.00	0.00	QC21		on 18/03/18

Part Op 100 - 1-Cut as per Dwg Dwg Rev: A Prog Rev: A 2-Deburr if necessary

Descriptions: 110 - QC2- Inspect parts off machine FAI/FAIB

120 - QC8- Inspect parts - second check

130 - Issue P/O to ATG 029310 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5580 2- Prime Grey as per Dwg. Certification of Conformity is required.

140 - Certification of Conformity is required.

170 - Identify as per dwg & Stock Location: _____

180 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M2024T3S.050	2024-T3 .050 Sheet	.0960 sf (.024 ea)	90-Start up Operation	M137626

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	M2024T3S.050	0	114	0

Part Specifications

Specifications could not be found.

Plex 3/8/18 1:31 PM Dart.Gagnon.Michelle

UAT Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 813 632-6200
Email: sales@dataero.com
www.dataerospace.com

CART
AEROSPACE

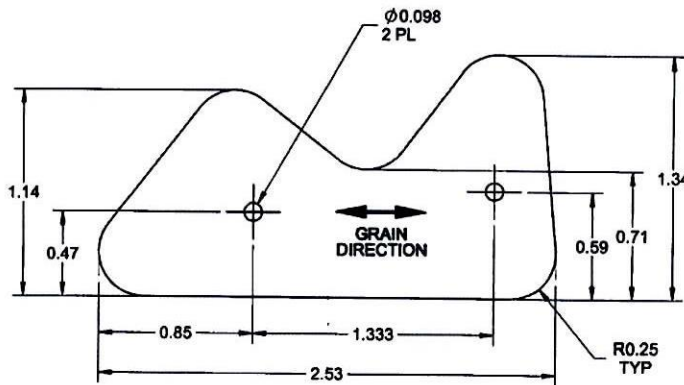
Container No: S049905



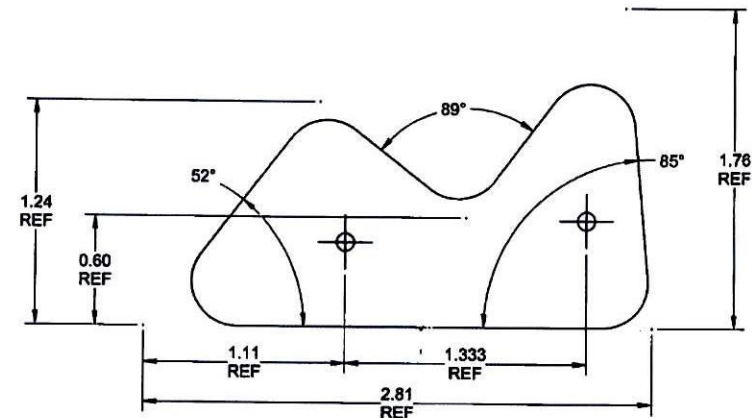
Part: D5580-1
Job No: 173986
Serial No/Batch: S049905
Revision: A
Inspector:

Date: 03/11/18

SHOP COPY
 RETURN TO
 ENGINEERING
 UNCONTROLLED COPY
 SUBJECT TO AMENDMENT
 WITHOUT NOTICE
 WORK ORDER
 NO. 173986
 MAR 08 2018



D5580-1 SHIM, CABLE CUTTER



(SUPPLEMENTAL VIEW)

NOTES:

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.050 THICK
 PER QQ-A-250/4 OR AMS-QQ-A-250/4
 OR AMS 4037 OR ASTM B209
 REF DART SPEC M2024T3S
- 2) FINISH: ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, COLOR = BLACK
 PRIME GREY PER QSI 005, 4.2.1.3.2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044, 6.1
- 7) WEIGHT: 0.01 lbs

RELEASED

2018 MAR 06
 Ecu 18-510

APPROVED

A		NEW ISSUE		AJS		17.10.24	
REV.		DESCRIPTION		BY		DATE	
DESIGN	AJS	DART AEROSPACE USA, INC. EUGENE, OR		REV. A		SHEET 1 OF 1	
DRAWN	RF						
CHECKED	VS	DRAWING NO.					
MFG. APPR.	JFS	D5580					
APPROVED	HS	TITLE				SCALE	
DE APPR.	CP	SHIM, CABLE CUTTER				NTS	
DATE		17.10.24					

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 NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
 WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039310**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalonde, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO039310
PO Date: 3/14/18
Due Date: 4/18/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	174097	646.3712	Clip Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as Per Dwg 646.3712 Rev. A	Firmed	4/18/18	6 pcs	0 pcs	6 pcs	\$7.55/pcs	\$45.30
2	174094	646.3715	Strut Doubler Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.3700	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$7.70/pcs	\$92.40
3	170471	646.3716	Gauge Bracket Issue P/O to ATG : _____	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$7.60/pcs	\$91.20
4	174092	646.3717	Doubler Issue P/O _____ATG, black anodize and prime as per dwg 646.3717 Rev. A	Firmed	4/18/18	6 pcs	0 pcs	6 pcs	\$7.70/pcs	\$46.20
5	174091	646.3718	Custom Washer Issue P/O _____ATG, black anodize and prime as per dwg 646.3718 Rev. A	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$5.40/pcs	\$64.80
6	174090	646.3719	Doubler Issue P/O _____ATG, balck anodize and prime as per dwg 646.3719 Rev. A	Firmed	4/18/18	12 pcs	0 pcs	12 pcs	\$7.70/pcs	\$92.40
7	173241	647.1610	Wiper Deflector Fwd Issue P/O to ATG : _____ 1- Hard Anodize, Color Black and Prime as per Dwg, 647.1600	Firmed	4/18/18	8 pcs	0 pcs	8 pcs	\$12.15/pcs	\$97.20
8	168290	647.1710	Plate Issue P/O to ATG : _____	Firmed	4/18/18	5 pcs	50 pcs	5 pcs	\$31.70/pcs	\$158.50
9		647.1711	Plate Issue P/O to ATG : _____	Firmed	4/18/18	5 pcs	50 pcs	5 pcs	\$31.70/pcs	\$158.50

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	171190	647.1714	Plate Issue P/O to ATG : _____ Hard Anodize and Prime as Per Dwg 647.1700 Rev. E	Firmed	4/18/18	10 pcs	0 pcs	10 pcs	\$31.70/pcs	\$317.00
11	171192	647.1715	Plate Issue P/O to ATG : _____ Hard Black Anodize and Prime as per Dwg 647.1700 Rev. E	Firmed	4/18/18	6 pcs	0 pcs	6 pcs	\$31.70/pcs	\$190.20
12	172770	649.5213	Doubler ISSUE P/O: _____ HARD ANODIZE, COLOR BLACK AS PER DWG 649.5200 Rev. A	Firmed	4/18/18	8 pcs	0 pcs	8 pcs	\$7.90/pcs	\$63.20
13	173986	D5580-1	Shim, Cable Cutter Issue P/O to ATG : _____ 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5580 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	4/18/18	4 pcs	0 pcs	4 pcs	\$12.60/pcs	\$50.40
14	173990	D5584-1	Doubler Issue P/O to ATG : _____ 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5584 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	4/18/18	2 pcs	0 pcs	2 pcs	\$14.15/pcs	\$28.30
15	172990	RBD29905-1	Side Plate -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required	Firmed	4/18/18	8 pcs	0 pcs	8 pcs	\$9.35/pcs	\$74.80
16	172991	RBD29905-3	Cord Handle -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required	Firmed	4/18/18	5 pcs	0 pcs	5 pcs	\$9.35/pcs	\$46.75
17	171731	RBT18520-15	Clevis Bracket -Issue P/O to ATG: _____ -ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 2 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed	4/18/18	2 pcs	0 pcs	2 pcs	\$9.35/pcs	\$18.70
Grand Total:										\$1,635.85

Order Notes

Purchase Order Receipt Listing

Wednesday, May 24, 2017 3:35:00 PM

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO36342 All Receipt Dates All Line Item Types
All Item ID/GL /W/Os All Rec Expense All C

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MET002	Metaux Solutions								
PO36342	1		M2024T3S.050	sf	5/24/2017	5/24/2017	96.0000	\$6.48	0.0000	0	\$622.20
CAD	No		2024-T3 .050 sheet	sf	96.0000	PLOU01		\$622.20	0.0000	0	
			m137626								
	2		71401-45		5/24/2017	5/24/2017	1.0000	\$0.00	0.0000	0	\$0.00
	No		PROCUREMENT		1.0000	PLOU01		\$0.00	0.0000	0	
			QUALITY								
			CLAUSES								
			m137626								

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 **Tel. : 450 641-3330**

Shipping Order 23/05/2017

Order : 125650
Reference : 36342
Bid : 22976
Ship : PICK UP / PICK UP

Customer : 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
AS05024	ALU SHEET .050 2024 T-3 ALCLAD 48 X 144 2 PCES -**** HT;206827B8	2	<u>2</u>	<u>2</u>

SHIP JOURNEY COLLECT
JP

Shipping : _____
Package No : _____
Merchandise Received: _____

Ref. : _____

SHIP TO:
SOLD TO:

**KAISER
ALUMINUM**
Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4447686

CUSTOMER PO NUMBER: C73678-3	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 103801/17	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1226583-3	SHIP DATE: 13-JAN-2017	ALLOY: 2024	CLAD: ALCLAD	TEMPER: T3
WEIGHT SHIPPED: 3249 LB	QUANTITY: 93 PCS EST.	TRUCK B/L #: 2084629	GUAGE: 0.0500 IN (1.2700 MM)	PRODUCT DESCRIPTION: HT Flat Sheet
			DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2075416: LOT 20882788: 93 pieces; *D 814156*

Certified Specifications

✓ AMS4462
CMMP 019/RevD

✓ AMS-QQ-A-250/5/RevB
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1505

Lot: 20882788

Cast 335

Drop 19

Test Results
Ingot 2

Melted in USA

(ASTM B8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	59.5 : 59.8 (410 : 412)	41.5 : 42.0 (286 : 290)	15.3 : 17.6

(ASTM E1261)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.18	4.8	0.57	1.3	0.01	0.07	0.02	0.01	0.00	TOT 0.05

ALLOY LIMITS

2024	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.8	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15
Linear Alloy:	1230											
MIN(wt%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	EACH	0.03
MAX(wt%)	0.25	0.30	0.10	0.05	0.05	0.03	0.05	0.03	0.03	0.03	TOT	0.00

Aluminum Remainder

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4447686

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.672-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M2024+35.050
 DATE: MAY 25 2017

PO / BATCH NO.: 0036342/M137626

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 96592+
 QUANTITY INSPECTED: 96592+
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.50
 THICKNESS RECEIVED: 0.50
 SHEET SIZE ORDERED: 4x12
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	Astm B209
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	H7# 206827 B8
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>CB</u>		SIGNED OFF BY: _____	
DATE: <u>MAY 25 2017</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36342

Purchase Order Date 5/17/2017

PO Print Date 5/17/2017

Page Number 1 of 2

Order From :

VC-MET002

METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
MAY 17 2017

Contact Name

Vendor Phone 800 558 8858

Ship To Contact

Ship To Phone

Ship Via: Journey Freight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
Line Comments			Promise Date				
Delivery Comments							

1	M2024T3S.050	2024-T3 .050 sheet	5/19/2017	Yes	96.00	\$8.85	\$850.00
			5/19/2017		sf		

MATERIAL: 2024-T3 ALUMINUM SHEET
AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037
OR ASTM B209

Line Total: \$850.00

2	71401-45	PROCUREMENT QUALITY CLAUSES	5/19/2017	No	1.00	\$0.00	\$0.00
			5/19/2017				

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

175-24

PO Instructions: BID 22976

Note:

5/17/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36342

Purchase Order Date 5/17/2017

PO Print Date 5/17/2017

Page Number 2 of 2

Order From :

VC-MET002

METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 558 8858

Ship To Contact

Ship To Phone

Ship Via: Journey Freight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB Destination-Collect

Line Total: \$0.00

PO Total: \$850.00

PO Instructions: BID 22976

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 5/17/2017